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<211> 1700
<212> DNA
<213> Homo sapiens

<400> 2

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<210> 3
<211> 445
<212> PRT
<213> Homo sapiens

<400> 3
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Gly Ala Pro Leu Pro Thr Phe Cys Trp Glu Gln Ile Arg Ala His Asp
20 25 30
Gln Pro Gly Asp Lys Trp Leu Val Ile Glu Arg Arg Val Tyr Asp Ile
35 40 45
Ser Arg Trp Ala Gln Arg His Pro Gly Gly Ser Arg Leu Ile Gly His
50 55 60
His Gly Ala Glu Asp Ala Thr Asp Ala Phe Arg Ala Phe His Gln Asp
65 70 75 80
Leu Asn Phe Val Arg Lys Phe Leu Gln Pro Leu Leu Ile Gly Glu Leu
85 90 95
Ala Pro Glu Glu Pro Ser Gln Asp Gly Pro Leu Asn Ala Gln Leu Val
100 105 110
Glu Asp Phe Arg Ala Leu His Gln Ala Ala Glu Asp Met Lys Leu Phe
115 120 125
Asp Ala Ser Pro Thr Phe Phe Ala Phe Leu Leu Gly His Ile Leu Ala
130 135 140
Met Glu Val Leu Ala Trp Leu Leu Ile Tyr Leu Leu Gly Pro Gly Trp
145 150 155 160
Val Pro Ser Ala Leu Ala Ala Phe Ile Leu Ala Ile Ser Gln Ala Gln
165 170 175
Ser Trp Cys Leu Gln His Asp Leu Gly His Ala Ser Ile Phe Lys Lys
180 185 190
Ser Trp Trp Asn His Val Ala Gln Lys Phe Val Met Gly Gln Leu Lys
195 200 205
Gly Phe Ser Ala His Trp Trp Asn Phe Arg His Phe Gln His His Ala
210 215 220
Lys Pro Asn Ile Phe His Lys Asp Pro Asp Val Thr Val Ala Pro Val
225 230 235 240
Phe Leu Leu Gly Glu Ser Ser Val Glu Tyr Gly Lys Lys Lys Arg Arg
245 250 255
Tyr Leu Pro Tyr Asn Gln Gln His Leu Tyr Phe Phe Leu Ile Gly Pro
260 265 270
Pro Leu Leu Thr Leu Val Asn Phe Glu Val Glu Asn Leu Ala Tyr Met
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Ala Arg Phe Phe Leu Ser Tyr Leu Pro Phe Tyr Gly Val Pro Gly Val
305 310 315 320
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325 330 335
Trp Ile Thr Gln Met Asn His Ile Pro Lys Glu Ile Gly His Glu Lys
340 345 350
His Arg Asp Trp Val Ser Ser Gln Leu Ala Ala Thr Cys Asn Val Glu
355 360 365
Pro Ser Leu Phe Thr Asn Trp Phe Ser Gly His Leu Asn Phe Gln Ile
370 375 380
Glu His His Leu Phe Pro Arg Met Pro Arg His Asn Tyr Ser Arg Val
385 390 395 400
Ala Pro Leu Val Lys Ser Leu Cys Ala Lys His Gly Leu Ser Tyr Glu
405 410 415

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Val Lys Pro Phe Leu Thr Ala Leu Val Asp Ile Val Arg Ser Leu Lys
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Lys Ser Gly Asp Ile Trp Leu Asp Ala Tyr Leu His Gln
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<212> DNA
<213> Mus musculus

<400> 4
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<210> 5
<211> 69
<212> PRT
<213> Mus musculus

<400> 5

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            20                  25                  30
Arg Gln His Asp Leu Pro Gly Asp Lys Trp Leu Val Ile Glu Arg Arg
        35                  40                  45
Val Tyr Asp Ile Ser Arg Trp Ala Gln Arg His Pro Gly Gly Ser Arg
    50                  55                  60
Ile Ile Gly His His
65
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<210> 6
<211> 48
<212> PRT
<213> Homo Sapiens

<400> 6

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His Asn Asp Gly Glu Glu Thr Trp Leu Val Val Asn Gly Gln Val Tyr
 1               5                  10                  15
Asp Ile Thr Lys Phe Leu Glu Glu His Pro Gly Gly Pro Asp Val Ile
            20                  25                  30
Met Glu Ala Ala Gly Thr Asp Ala Thr Glu Glu Phe Glu Ala Ile His
        35                  40                  45
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<210> 7
<211> 85
<212> PRT
<213> Common sunflower

<400> 7

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Thr Ile Asp Ile Ala Cys Ser Ser Trp Met Asp Trp Phe Phe Gly Gly
            20                  25                  30
Leu Gln Pro Gln Leu Glu His His Leu Phe Pro Arg Leu Pro Arg Cys
        35                  40                  45
His Leu Arg Ser Ile Ser Pro Ile Cys Arg Glu Leu Cys Lys Lys Tyr
    50                  55                  60
Asn Leu Pro Tyr Val Ser Leu Ser Phe Tyr Asp Ala Asn Val Thr Thr
65                  70                  75                  80
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Leu Lys Thr Leu Arg
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<210> 8
<211> 53
<212> PRT
<213> Common sunflower

<400> 8
Lys Glu Leu Lys Lys His Asn Asn Pro Asn Asp Leu Trp Ile Ser Ile
1 5 10 15
Leu Gly Lys Val Tyr Asn Val Thr Glu Trp Ala Lys Glu His Pro Gly
20 25 30
Gly Asp Ala Pro Leu Ile Asn Leu Ala Gly Gln Asp Val Thr Asp Ala
35 40 45
Phe Ile Ala Phe His
50

<210> 9
<211> 76
<212> PRT
<213> Common sunflower

<400> 9
Leu Ser Gly Ala Ile Leu Gly Leu Ala Trp Met Gln Ile Ala Tyr Leu
1 5 10 15
Gly His Asp Ala Gly His Tyr Gln Met Met Ala Thr Arg Gly Trp Asn
20 25 30
Lys Phe Ala Gly Ile Phe Ile Gly Asn Cys Ile Thr Gly Ile Ser Ile
35 40 45
Ala Trp Trp Lys Trp Thr His Asn Ala His His Ile Ala Cys Asn Ser
50 55 60
Leu Asp Tyr Asp Pro Asp Leu Gln His Leu Pro Met
65 70 75

<210> 10
<211> 87
<212> PRT
<213> Borago oficinalis

<400> 10
Val Gly Lys Pro Lys Gly Asn Asn Trp Phe Glu Lys Gln Thr Asp Gly
1 5 10 15
Thr Leu Asp Ile Ser Cys Pro Pro Trp Met Asp Trp Phe His Gly Gly
20 25 30
Leu Gln Phe Gln Ile Glu His His Leu Phe Pro Lys Met Pro Arg Cys
35 40 45
Asn Leu Arg Lys Ile Ser Pro Tyr Val Ile Glu Leu Cys Lys Lys His
50 55 60
Asn Leu Pro Tyr Asn Tyr Ala Ser Phe Ser Lys Ala Asn Glu Met Thr
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Leu Arg Thr Leu Arg Asn Thr
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<210> 11
<211> 87
<212> PRT
<213> Borago oficinalis

<400> 11
Val Gly Lys Pro Lys Gly Asn Asn Trp Phe Glu Lys Gln Thr Asp Gly
1 5 10 15

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Thr Leu Asp Ile Ser Cys Pro Pro Trp Met Asp Trp Phe His Gly Gly
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Leu Gln Phe Gln Ile Glu His His Leu Phe Pro Lys Met Pro Arg Cys
        35                  40                  45
Asn Leu Arg Lys Ile Ser Pro Tyr Val Ile Glu Leu Cys Lys Lys His
    50                  55                  60
Asn Leu Pro Tyr Asn Tyr Ala Ser Phe Ser Lys Ala Asn Glu Met Thr
65                  70                  75                  80
Leu Arg Thr Leu Arg Asn Thr
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<210> 12
<211> 68
<212> PRT
<213> Borago oficinalis

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<400> 12
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Asp Ser Arg Leu Asn Lys Phe Met Gly Ile Phe Ala Ala Asn Cys Leu
            20                  25                  30
Ser Gly Ile Ser Ile Gly Trp Trp Lys Trp Asn His Asn Ala His His
        35                  40                  45
Ile Ala Cys Asn Ser Leu Glu Tyr Asp Pro Asp Leu Gln Tyr Ile Pro
    50                  55                  60
Phe Leu Val Val
65
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<210> 13
<211> 54
<212> PRT
<213> Synechocystis Sp. (Strain PCC 6803)

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<400> 13
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 1               5                  10                  15
Leu Phe Pro Asn Ile Cys His Ile His Tyr Pro Gln Leu Glu Asn Ile
            20                  25                  30
Ile Lys Asp Val Cys Gln Glu Phe Gly Val Glu Tyr Lys Val Tyr Pro
        35                  40                  45
Thr Phe Lys Ala Ala Ile
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<210> 14
<211> 23
<212> DNA
<213> Homo sapiens

<400> 14
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<210> 15
<211> 24
<212> DNA
<213> Homo sapiens

<400> 15
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